

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
16 October 2003 (16.10.2003)

PCT

(10) International Publication Number
WO 03/085839 A1

(51) International Patent Classification⁷: **H03M 13/29**,
G11B 20/18

(21) International Application Number: PCT/IB03/01003

(22) International Filing Date: 14 March 2003 (14.03.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
02076356.1 5 April 2002 (05.04.2002) EP

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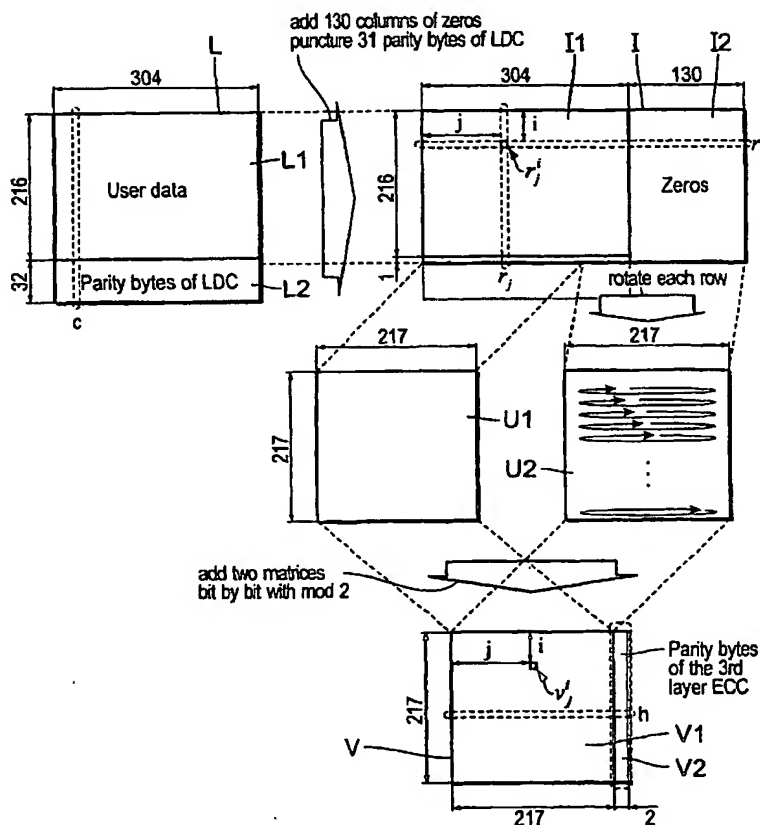
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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),

[Continued on next page]

(54) Title: METHOD AND APPARATUS FOR EMBEDDING AN ADDITIONAL LAYER OF ERROR CORRECTION INTO AN ERROR CORRECTING CODE



(57) Abstract: The present invention relates to a method of embedding an additional layer of error correction into an error correcting code such as a product code in a DVD or a picket code in a DVR, wherein information is encoded into code words of said code and wherein a number of code words are arranged in the columns of code block. In order to provide an additional layer of error correction that can be easily implemented without losing compatibility improving the error correction capabilities a method is proposed comprising the steps of: reducing the length of each row of said code block by adding row symbols together according to a predetermined adding rule resulting in a reduced code block, encoding the shortened rows of said reduced code block using a horizontal error correcting code to obtain horizontal parities, embedding said horizontal parities as additional layer in said error correcting code.



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

Published:

— *with international search report*

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INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 03/01003

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H03M13/29 G11B20/18

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H03M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	COENE W ET AL: "Channel coding and signal processing for optical recording systems beyond DVD" IEEE TRANSACTIONS ON MAGNETICS, IEEE INC. NEW YORK, US, vol. 37, no. 2, pt1, 14 August 2000 (2000-08-14), pages 682-688, XP002204220 ISSN: 0018-9464 page 686	1-16

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☐ Patent family members are listed in annex.

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Date of the actual completion of the international search

26 August 2003

Date of mailing of the international search report

04/09/2003

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